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CAMBRIDGE, MASSACHUSETTS, TUESDAY, APRIL 23, 1957

5 CENTS

3-2 Plan Extended To All Colleges; MIT To Make Admission Decisions

B. Alden Thresher '20, Director of Admissions, revealed last week that the twenty year old "three-two plan" which has carried on with seventeen liberal arts schools will be revised next fall so that any college may participate in

This plan provides an education consisting of three years at a liberal arts college and two years at MIT. At the end of five years a graduate receives both a BS degree from MIT and a BA degree from the other school.

The principle change necessitated by the expansion is in the method of determining who should be admitted to MIT. "In the past," Thresher said, "the liberal arts school alone determined whether a student was qualified for MIT admission. Now, with so many schools in the program, any school can send us recommendations for students which hey believe to be qualified, but the MIT admissions office will make the decisions—based on the same things as are required of transfer students. Thresher emphasized that this was "not a discontinuance of the plan, but rather a liberalization and broadening."

At present the plan works like this: A student enrolls in the liberal arts college, and takes a heavy program of math and science. After three years he has the equivalent of two years at MIT and some extra humanities. He then comes to MIT and enters as a Junior; after two years he receives his MIT BS degree, and a BA degree from the liberal arts college.

Every year about 25 enter MIT on

this "Three-two" plan. This, however, is a very small percentage of those who originally intended to participate in the program when they entered the liberal arts school. Bob Featherstone 58, a 3-2 transfer from Carleton College, said, "When I was a freshman there were 25 or 30 others also in the program. In my Junior year, I was the only one who stayed with it." He said both academic difficulties and interest changes caused the drop out.

Featherstone, now in Course VI, was a physics major at Carleton, where no electrical courses are taught. He stated, "The greatest difference in coming to MIT was the way the courses were taught—here I find much more math in the engineering courses."

Hazing Views To Be Aired At Inscomm OpenMeeting, Today

An open meeting of Institute Committee will be held in Kresge Audiderium today at 5:00 p.m. Hazing is the primary topic that will be discussed at this meeting according to Arnold Amstutz '58, President of the Undergraduate Association.

Two motions have been presented to inscomm within the last month concerning the control and limitation of hazing. The first motion which was introduced by Execomm placed the living groups in control of hazing. The second motion which was presented at the last Inscomm meeting gave the tentrol of hazing to Institute and Indicial Committee.

Both of these motions according to Robert Jordan '58 were used to prolide a "working basis which Inscomm hight set its teeth into." From this basis Inscomm was able to discuss the basis Inscomm was able to discuss the basis issue in concrete terms. Jim hastin '58, chairman of Secretariat had that he believed that everyone in Inscomm had pretty well agreed that hazing was not beneficial to the basis was in line with the basis of the conference, that spirit within the Institute should be encouraged between living groups rather than between class.

Everyone who is interested in the daing question is invited to attend the open meeting. Bob Jordan stated that the purpose of this meeting was provide a place where anyone could and should express their views. He died that the students who attend any or may not effect the Institute committee decision. For instance, smeone could bring up an entirely ewpoint in the hazing issue.

MIT Wins Boston Dinghy Club Cup As Widnall Leads Tech Sailors

In a hotly contested battle on the Charles River, MIT came from behind to capture the oldest trophy in intercollegiate dingy racing—the Boston Dingy Club Cup. Competing were the top teams in New England as well as George Washington, R.P.I., Purdue, and Notre Dame from other associations. The two day regatta was sailed in a heavy westerly wind with gusts up to 35 knots, which produced several capsizals.

At the end of Saturday's racing, Boston University was ahead by a slight margin, with Tech and several others of the fourteen college fleet within striking distance.

CollegeCrookCaught AfterPassingRubber Checks On Campuses

Charles F. Hopkins, an alleged passer of bad checks, who cut a swath from Yale to MIT to Harvard to Dartmouth was finally apprehended by Dartmouth police last week.

On April 17, an MIT student cashed a check for \$55 for Hopkins at the bursar's office. When the check was discovered, the Harvard police were informed, but Hopkins had already passed by that way, having persuaded a Harvard student to cash a \$50 dollar check for him the same afternoon.

The Harvard student told police that Hopkins had mentioned that he was going to Dartmouth and had asked if he had any friends there that he could "say hello" to. The Harvard police immediately called the Dartmouth police who set out to warn the "friend." They found him making the rounds of the campus with Hopkins.

Hopkins was arraigned in the Third District Court in Cambridge, Saturday, and the New Haven police have a "retainer" out for him. Racing, again underway Sunday morning, the wind still strong, Tech began to close the margin between themselves and B.U. Especially hot 'n "B" division, Bill Widnall '59 and crew Steve Strong '57, were consistently placing first or second in each race. By the eleventh race, Tech had worked out into first place with three races remaining in each division. But in the next "A" race, Bill Stiles '57 and crew Dennis Posey '59, took a large wave over the bow and swamped. Behind again, Tech fought back with two firsts and a second.

The Tech team entered the crucial final race just a few points ahead. Widnall rounded the first mark with Bowdoin close behind and B.U. way back in the fleet. A gust of wind capsized Bowdoin and from there on the race was Widnall's and the regatta and cup Tech's.

Team captain Widnall was high point skipper for the regatta with 7 firsts, 5 seconds, and 2 fourths totaling 199 points. Stiles gained 147 points with 5 firsts, 2 seconds, a fourth, fifth, and eighth, 3 drop-outs, and a breakdown averaged in as a fifth.

FINAL STANDINGS: 1, MIT 346; 2, Boston U. 333; 3, Notre Dame 296; 4, Purdue 281; 5, Coast Guard Academy 229; 6, Bowdoin 222; 7, Brown 214; 8, Trinity 193; 9, R.P.I. 189; 10, Tufts 188; 11, George Washington 173; 12, Babson 168; 13, R.I.S.D. 164; 14, Yale 130.

Encore For Giant Strobe

Beam Heralds Open House

East Campus is in for another display of flashing lights this Friday. Dr. Harold E. Edgerton '27, Professor of electrical measurement here at MIT said he will flash his strobe lights atop the Dorrance Building again this Friday night in a repeat performance of last Wednesday's show which was reportedly seen by aircraft over fifty miles away—as well as by a number of anxious Bostonians. The light is planned as a "gimmick" for creating interest in Open House, Saturday, April 27. Dr. Edgerton said he will try to shine his light into several of the East Campus dormitories and around the Great Court and Walker Memorial.

Dr. Edgerton is an MIT product. He received his M.S. at MIT in 1927 and his D.Sc. in 1931. His specialty is high speed flash and photography, which he developed here while studying the motion of rapidly moving

Schedule Available April 26 For Finals

An alleged literary work, said to categorize for the harried college student "some of the worst conflicts of our times" will be available in the Information Office Friday.

The work is the Examination Sched-

A furtive scanning of the Schedule reveals that both Intermediary Metabolism 7.68 and Engineering Laminates are planned for Tuesday morning, May 28. Seniors suffering from this conflict should report it to the proper authorities. Another scheduling quirk pits Elem. Elec. Circ. Th. 6.10 against Non-Lin. Imped. as Power Modulators 6.524 the following afternoon.

The examination period will begin Saturday, May 25 and end the following Friday. However, the only large group of students who will be forced to take an exam after Wednesday will be those enrolled in *Circuit Theory* 6.01.

Freshmen will take exams in Humanities Saturday, Physics Monday, Calculus Tuesday, and Chemistry Wednesday. All frosh exams will be in the afternoon. Sophomore exams in Humanities, Math, and Physics will be given on Saturday, Monday and Tuesday mornings respectively.

rotors in motors and generators. Since that time the strobe light or electronic flash, which is really just an electrical discharge in a gas filled tube, has found uses in every field from medicine to bird study. With Dr. Edgerton's flash a bullet can be stopped in flight or the strike of a rattle-snake cut short in mid-air.

High speed motion pictures, as anyone who saw the a-bomb movies in 10-250 last Wednesday evening can testify, is another development of "Doc" Edgerton's. Shortly after the war the Atomic Energy Commission needed someone to record data and take pictures of the nuclear tests. As Dr. Edgerton's son, a physics major at the University of Rochester, explained, "On the first tests everyone had his own wire, and it didn't always work." The firm of Edgerton, Germeshausen & Grier, Inc. sot the job of seeing that everything did work. To date the firm has covered something like 51 atomic and hydrogen bomb tests at the Nevada site and at Bikini Atoll in the Pacific Ocean. In this work it is necessary to resolve times of the order of one ten millionth of a second. Some of the measurements are so fast that by the time the signal reaches the pickup the transmitter has been disintegrated. A long time in this business is 3 micro-seconds.

Five years ago Dr. Edgerton became interested in underwater photography. For several years now during the summers he has been working with Capt. Jacques-Yves Cousteau of the French navy. The interesting display in the main lobby, marked by the ancient amphorae, is a result of his work with the Calypso-National Geographic Society expedition in 1953.

Last Saturday Dr. Edgerton was busy setting up an experiment for Open House in Building Seven. The object: to measure the velocity of light. With something that looked like the world's biggest shaving mirror, an electric arc, and a piece of Scotch-Lite Tape at the end of the corridor, he produced two little blips on what appeared to be a fancy oscilloscope. Using some mental arithmetic and a rough estimation of the distance the figure came out three times ten to the sixth centimeters. Not bad!

Dr. Edgerton is chairman of the faculty advisory committee for this year's Open House, but he said he was working on the display just because "I enjoy doing it."

Open House Visitors Will Glimpse Missile Power Unit Developed By Ingenious, Straight-Jacketed Engineers





Professor Robert W. Mann admires the auxiliary guided missile power supply which he developed.

An auxiliary power supply for guided missiles will be one of the exhibits at the MIT Open House, Saturday, April 27. Visitors will be able to see this important device in the Dynamic Analysis and Control Laboratory in Building 20.

The power supply was developed by a DACL group, under Professor Robert W. Mann '50, which succeeded despite the handicap of severe size and performance restrictions.

The device's power source is a small tube packed with a nitro-glycerine-nitro-cellulose base solid fuel. This is connected to a small turbine whose shaft drives a generator. Upon ignition of the solid fuel, high pressure gas shoots out of the tube and drives the turbine wheel which drives the generator, producing an electric cur-

The power supply, which weighs only a few pounds, delivers one kilo-

watt of electric power for about ninety seconds. It can withstand accelerations of 50 "g's" and vibrations of 500 to 1000 cps. It features instant response under all types of weather conditions.

Some of the problems solved inherent to this specific system were regulation of gas pressure, shaft support, and adequate lubrication of bearings at the high temperatures of the system.

Earlier models of this type are now functioning in two existing missile systems.

Professor Mann says that if the auxiliary power systems were to be designed concurrently with the missiles instead of separately, as they are now, the weight of the overall electrical system could be reduced.

According to Professor Mann, the most significant aspect of the project is the fact that all work was done by people with no industrial experience.

The



Tech

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The Board of Directors of THE TECH apologizes for the article which appeared in the April 16th issue of THE TECH entitled "One Small Voice." The article was taken from another source without proper acknowledgment which constitutes an error in editorial judgment.

the kibitzer

One of the most interesting hands played in the 1957 National Intercollegiate tournament gave a chance to the declarer to produce an unusual dummy reversal.

T		
	NORTH S—K Q 5 H—Q 6 5 3 D—A Q 9 6 C—8 4	
WEST		EAST
S8 3		S9 6 4 2
H—K 9 7		H—A J 10 4 2
D—J 10 8 7		D
CQ] 10 7		C9 5 3 2
•	SOUTH	-
	S—A J 10 7	
	H8	
	D-K 5 4 3 2	
	C—A K 6	

The contract 6 diamonds by South. Opening Lead: Queen of Clubs.

Declarer won the opening lead with the king of clubs. The correct play in the trump suit is to play the king first because if West holds the four diamonds they all can be captured while if East holds them nothing can be done anyway.

When East showed out of trumps in the first round declarer could only count on 2 clubs, 4 spades and 5 diamonds. If he ruffed his third club he would have to give up a trump in addition to the heart loser.

Declarer proceeded to look for a 12th trick which could only come from the trump suit. He conceded the heart and won the opponent's club return with the ace.

He now led a small trump, West covered with the ten and dummy's queen won the trick. He proceeded next to ruff a heart, lead another trump, finessing West, and another heart ruffed in his hand. By this time the hands looked as follows:

	NORTH S—K Q 5 H—Q D—A C—	
WEST		EAST
S8 3		S-9 6
H		3—9 О Н—А
D—J		_
C—10 7		D C9 5
	SOUTH	C9 J
	S—A J 10 7	
	Н—	
	D	
	C6	

Declarer now led a small spade to dummy's king, pulled the last trump discarding his club loser and won the rest of the tricks with his good spades.

calendar of events

WEDNESDAY, APRIL 24

Varsity Golf Team. Match with Brown and Wes-OAKLEY COUNTRY CLUB, 1:30 p.m. Operations Research. Seminar. Waiting Lines-Part VIII: "The Solution for Constant Servicing Times." Dr. Herbert P. Galliher, of the Operations Research Project. ROOM 2-333, 3:00 p.m. Electrical Engineering Department. Colloquium: 'Some Limitations of Linear Amplifiers." Mr. Richard D. Thornton, Electrical Engineering Department. Refreshments will be served in Room 10-280 at 4:30 ROOM 10-250, 3:30 p.m. Varsity LaCrosse Team. Game with Harvard University. BRIGGS FIELD, 3:30 p.m. Biology Department. Colloquium: "Some Ocular, Cerebral, and Autonomic Biopotential Phenomena: Their Surface Measurement on the Intact Animal during Controlled and Spontaneous Behavior Variations." Dr. E. M. Christine Kris, Research Laboratory of Electronics, MIT. Tea will be served in Room ROOM 16-310, 4:00 p.m. 16-711 at 3:30 p.m. Civil and Sanitary Engineering Department. Hydromechanics Seminar: "Tensile Strength of Liquids at High Rates of Stressing." R. M. Davies, Department of Physics, University College of Wales, Aberystwyth. Coffee will be served at 3:45 p.m.

ROOM 48-208, 4:00-5:00 p.m. Freshman Track Team. Meet with Governor Dummer Academy. BRIGGS FIELD, 4:00 p.m. Varsity Baseball Team. Game with Colby College. BRIGGS FIELD, 4:00 p.m.

Electrical Engineering Department—Cooperative Course. Pre-interview talk by representatives of General Radio, regarding cooperative program opportunities for Course VI sophomores. Freshmen invited. Bring your questions.

ROOM 10-250, 5:00 p.m. Technology Catholic Club. Talk: "The Priesthood. Ancient and Modern." The Very Rev. Francis J. Rossiter of St. John's Seminary, Brighton, Mass.

ROOM 2-190, 5:00 p.m. American Society of Civil Engineers—MIT Chapter. Annual Spring Banquet. Speaker: Professor Charles H. Norris, Civil Engineering Department. RED COACH GRILL, HARVARD SQUARE, 6 p.m.

THURSDAY, APRIL 25

Nuclear Engineering Department. Seminar: "Interaction of Separated Fissionable Systems." Floro D.

FACULTY CLUB PENTHOUSE, 1:00-2:00 p.m. Freshman Golf Team. Match with Harvard Univer-OAKLEY COUNTRY CLUB, 1:30 p.m. Freshman Tennis Team. Match with Governor Dummer Academy. BURTON HOUSE COURTS, 3 p.m. Mathematics Department. Harvard-MIT Joint Mathematics Colloquium: "Cohomology of Sphere Bundles." Professor W. S. Massey of Brown University. Tea will be served in Room 2-290 at 4:00 p.m.

ROOM 2-390, 4:30 p.m.

FRIDAY, APRIL 26

Metallurgy Department. Colloquium: "Measurements of the Volta Potential of Silver and Platinum in the Presence of Oxygen." Professor E. Lange, Institut fur physikalische Chemie, University of Erlangen, Germany. ROOM 8-205, 3-4 p.m. Mechanical Engineering Department. Seminar: "Statistical Problems in High-Speed Measurements." Professor Thomas P. Rona, Mechanical Engineering Department. Coffee will be served in Room 3-174 from 3:00-3:30 p.m. ROOM 3-270, 3:30 p.m. Varsity Tennis Team. Match with Colby College.

BURTON HOUSE COURTS, 3:30 p.m. Assemblies Ball. The Assemblies Ball Committee of Walker Memorial Student Staff presents the Twenty-Third Francis Amasa Walker Assemblies. Invitation WALKER MEMORIAL, 9:00 p.m. MIT Dames. Spring Dance: Calico Capers, square dance. Admission: \$2.00.

PAYSON HALL, BELMONT, 9:00 p.m.

SATURDAY, APRIL 27

MIT Open House. MIT's 20th Open House includes departmental and laboratory exhibits, demonstrations, and films; organ recitals; concert by the MIT Concert Band; and athletic events.

MIT, 12:00 Noon-7:00 p.m. Varsity Sailing Team. Geiger Trophy.
SAILING PAVILION, 12.30 p.m.

Freshman Golf Team. Match with Governor Dummer Academy.

OAKLEY COUNTRY CLUB, 1:30 p.m. Varsity Golf Team. Match with Bowdoin College.
OAKLEY COUNTRY CLUB, 1:30 p.m.

Varsity Baseball Team. Game with Bowdoin College. BRIGGS FIELD, 2:00 p.m. Varsity LaCrosse Team. Game with University of New Hampshire. BRIGGS FIELD, 2:00 p.m.

Varsity Tennis Team. Match with Bowdoin College.
BURTON HOUSE COURTS, 2:00 p.m. Outdoor Track—Varsity and Freshman Teams. Meet BRIGGS FIELD, 2:00 p.m. with Tufts University. Lightweight Crew. Race with Dartmouth College and Harvard University for Biglin Cup.

CHARLES RIVER, 5:00 p.m. Heavyweight Crew. Race with Boston, Syracuse, and Harvard Universities.

CHARLES RIVER, 5:00 p.m. CALENDAR OF EVENTS

Material for the Calendar of May 1-8 is due in the office of the editor, Miss Dorothy Knox, Room 3-339, not later than noon on Thursday, April 25.

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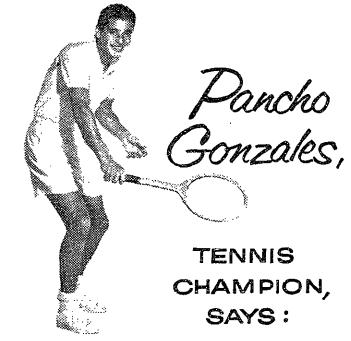
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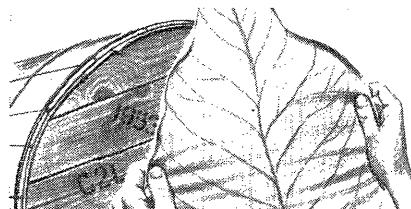
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AIR CONDITIONED

Lightweight Crew Outlengthed By Harvard In First Charles Race

MIT's lightweight crews went down to four successive defeats at the hands of their Harvard opponents last Saturday in races over the choppy, windswept, one and five sixteenth mile course on the Charles. This traditional opening of the crew season produced three decisive victories for the Crimson, and an all important two length win in the featured varsity race.

The sun had left the sky and darkness covered the course by the time the two varsity eights were able to start from in front of the Sloan Building. Large waves lapped over the sides of the shells, and the strong headwind necessitated a floating start, rather than from the usual stakeboats. Harvard, virtually man for man the same crew that beat MIT twice last year, faced a spirited Tech shell manned by four sophomores, three juniors, a senior, and a junior coxswain, only three of whom had any varsity experience.

Tech jumped into an early lead as

the Crimson quickly settled into a slow steady pull through the rough water prior to Harvard Bridge. By Building 10 MIT had opened a threequarter length lead as Cox Al Philippe '58 called a 33-34 stroke to Harvard's 32. At Burton House, Tech still held a two seat lead, but it was all even by the seawall, and at Smith House Harvard had gone out by two seats. By this time both boats had started to move out, but it was soon apparent that it was Harvard's race. The Crimson had opened to a three-quarter length lead at Howard Johnson's and expanded it to two lengths as they sped over the finish line. The winning time was 7:48.2, not bad considering the strong wind, while Tech was timed in a respectable 7:56.4.

MIT's BOATING:
Varsity: Stroke, Moran; 7, Humphrey; 6,
Zachor; 5, Hellsten; 4, Platte: 3, Thomas;
2, Rogers, Bow, Root, Captain; Cox, Philippe,
IV: Stroke, Jeffries; 7, Park; 6, Maas;
5, Lazarchik; 4, Hoult; 3, Fleischer; 2, Buce;
Blow, Farrow; Cox, Olshaker.
Frosh: Stroke, Stoeckly; 7, Cheeve; 6,
Kinch; 5, Novak; 4, Beinold; 3, Chapman;
2, Herget; Bow, Homby; Cox, Anderson. MIT'S BOATING

Tech Lifters Split; Win From Colgate, Lose To Harvard

Led by Ted Lewis '58, George Pillorge '60, and its trio of heavyweights, the MIT weightlifting team split its last two meets, beating Colgate 27-26 before dropping a decision to Harvard, 29-24.

Lewis and Pillorge each took two firsts in the 132 and 181 lb. classes, respectively. Ed Crowley '58 was the top heavyweight in the Colgate contest, but he missed all three press attempts to finish second against the Crimson. Frosh heavyweights Mike Pilla and Gary Miller finished first against Harvard and second in the encounter with the Red Raiders, in that order.

Captain Herb Kavet '58 copped second in both matches in the 165 lb. division, although if he had made either of his two press attempts of 165 pounds in the Harvard meet, he would have tied for first. He had pressed that easily in the other con-

Other seconds in the Colgate win were taken by Ken Krohn '59 in the 148 lb. class and Harry Kamamis '59 in the 198 lb. division. Jim Middlekauff '60 finished second in that class in the Crimson meet. Tech's other lifters were Dick Gurski '59, Ed Shemk '60, John Pieri '60, Bob Lagace '60 and George Kraft '60.

The Harvard match, held before a relatively large audience Saturday, was the more interesting, as the Colgate contest was held through the mail, with the two squads lifting in their own gyms April 6 and sending each other their totals.

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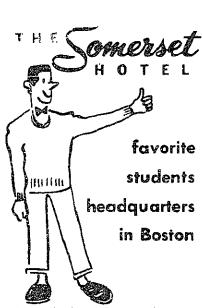
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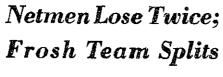
Tech Nine Drops 3; Ninth Inning Rallies Fall One Run Short

Last week proved to be rather disappointing to the Beaver varsity nine as they dropped three games, two of them by one run, to B.U., B.C. and Lowell.

The Engineers were edged 7-6 at B.U. last Monday after their ninth inning rally fell short. Marty Bressler '57 went the route for Tech, giving up six hits and nine bases on balls. The walks and the half-dozen errors by the Beaver defense cost them the game.

At home against Boston College on Thursday, MIT came out on the short end of a 6-1 score. Al Beard '59 started and took the loss for Tech, although six misplays behind him didn't help the Engineers. The one bright spot for the Beavers was Junior Ken Welsh's four innings of shutout hurling in relief.

Saturday at Lowell, MIT was downed 7-6, when, after tying the contest with two runs in the top of the ninth, the home team came back with a tally in the bottom half.



MIT's lacrosse team failed twice in recent days to break into the win column. Stevens Tech and Worcester Polytech handed the Beavers defeats by the scores of 7-2 and 9-3 respectively.

The home opener against Stevens last Thursday proved disappointing as the visitors dominated play and managed a rather easy win. Dick Child '57 and Jim Russell '59 tallied the lone Tech markers in the contest.

Last Saturday Coach Ben Martin's contingent journeyed out to Worcester Poly and absorbed another defeat. The first MIT marker was recorded by Dave Clunies '57 with an assist from Jim Bennenson '58. The final two tallies were notched by Charles Fitzgerald '59. Clark and Whitney paced the Whoopie Tech attack with three goals

In a pair of games during the past week the MIT frosh lacrosse team split two games with Harvard and Nichols Jr. College to bring its season record to two wins and one loss.



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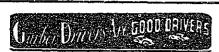
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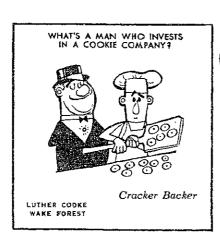
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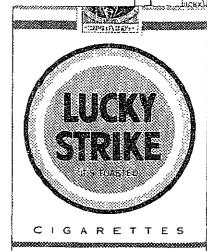
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